```
61 ENYVNEIRNSYYTHWLSAAERILVADKIITEEERKHRVQEILEGRYTDRNPSRKFDPAEI 120
  Db
                                                                                                             1 MNGVYDVGGTDGLGPINRPADEPVFRAEWEKVAFAMFPATFRAGFMGLDEFRFGIEQMNP 60
           112 KPELIEFVNQAVYGGLPASREVDRPPKFKEGDVVRFSTASPKGHARRARYVRGKTGTVVK 171
                                                                                                                Qу
              1 MDGIHDTGGMTGYGPVPYQKDEPFFHYEWEGRTLSILTWMHLKGISWWDKSRFFRESMGN 60
            121 E-KAIERLHEPHSLALPGAE----PSFSLGDKVKVKNMNPLGHTRCPKYVRNKIGEIVT 174
                                                                                                             61 AEY---LESPYYWHWIRTYIHHGVRTGKIDLEELERRTQ-----YYRENPDAPLPEHEQK 112
           172 HHGAYIYPDTAGNGLGECPEHLYTVRFTAQELWGPEGDPNSSVYYDCWEPYI 223
                                                                                                                 Qv
                                                                                                             61 ENYVNEIRNSYYTHWLSAAERILVADKIITEEERKHRVQEILEGRYTDRKPSRKFDPAQI 120
                Db
           175 SHGCQIYPESSSAGLGDDPRPLYTVAFSAQELWGDDGNGKDVVCVDLWEPYL 226
  Dh
                                                                                                            113 PELIEFVNQAVYGGLPASREVDRPPKFKEGDVVRFSTASPKGHARRARYVRGKTGTVVKH 172
                                                                                                  Ov
                                                                                                                ; || ::: || ; | | | || :: :: | || | :| || || :| :
                                                                                                            121 EKAIERLHEPHSLALPGAE----PSFSLGDKIKVKSMNPLGHTRCPKYVRNKIGEIVAY 175
  RESULT 4
  S19713
  nitrile hydratase (EC 4.2.1.84) beta chain, H-type - Rhodococcus rhodochrous
                                                                                                            173 HGAYIYPDTAGNGLGECPEHLYTVRFTAOELWGPEGDPNSSVYYDCWEPYI 223
                                                                                                  Οv
                                                                                                                N;Alternate names: H-nitrilase
                                                                                                            176 HGCQIYPESSSAGLGDDPRPLYTVAFSAQELWGDDGNGKDVVCVDLWEPYL 226
  C; Species: Rhodococcus rhodochrous
  A; Variety: strain J1
  C;Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 09-Jul-2004
                                                                                                  RESULT 5
  C; Accession: S19713; S78583; S14772
                                                                                                  S04473
R;Kobayashi, M.; Nishiyama, M.; Nagasawa, T.; Horinouchi, S.; Beppu, T.; Yamada,
                                                                                                  nitrile hydratase (EC 4.2.1.84) beta chain [validated] - Rhodococcus sp.
                                                                                                  C; Species: Rhodococcus sp.
  Biochim. Biophys. Acta 1129, 23-33, 1991
                                                                                                  C; Date: 21-Nov-1998 #sequence_revision 21-Nov-1998 #text_change 27-Oct-2003
  A; Title: Cloning, nucleotide sequence and expression in Escherichia coli of two
                                                                                                  C; Accession: S04473; S02071; S15072; S54106; S62096
  cobalt-containing nitrile hydratase genes from Rhodococcus rhodochrous J1.
                                                                                                  R; Ikehata, O.; Nishiyama, M.; Horinouchi, S.; Beppu, T.
  A; Reference number: S19713; MUID: 92096459; PMID: 1840499
                                                                                                  Eur. J. Biochem. 181, 563-570, 1989
  A; Accession: S19713
                                                                                                  A; Title: Primary structure of nitrile hydratase deduced from the nucleotide
  A; Molecule type: DNA
                                                                                                  sequence of a Rhodococcus species and its expression in Escherichia coli.
  A:Residues: 1-229 <KOB>
                                                                                                  A; Reference number: S04471; MUID: 89276338; PMID: 2659343
  A; Cross-references: UNIPROT:P21220; UNIPARC:UPI0000130030; EMBL:X64359;
                                                                                                  A; Accession: S04473
  NID:q49057; PIDN:CAA45709.1; PID:g49058
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  A; Experimental source: strain J1
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  A; Accession: S78583
                                                                                                  A;Cross-references: UNIPARC:UPI0000000959; EMBL:X14668; NID:g46429;
  A; Molecule type: protein
                                                                                                  PIDN:CAA32798.1; PID:q46431
  A; Residues: 1-28;69-78 < KOY>
                                                                                                  A; Note: part of this sequence, including the amino end of the mature protein,
  A; Cross-references: UNIPARC: UPI0000147A98; UNIPARC: UPI0000172FF9
                                                                                                  was confirmed by protein sequencing
  R; Nagasawa, T.; Takeuchi, K.; Yamada, H.
                                                                                                  R; Endo, T.; Watanabe, I.
  Eur. J. Biochem. 196, 581-589, 1991
                                                                                                  FEBS Lett. 243, 61-64, 1989
  A; Title: Characterization of a new cobalt-containing nitrile hydratase purified
                                                                                                  A; Title: Nitrile hydratase of Rhodococcus sp. N-774. Purification and amino acid
  from urea-induced cells of Rhodococcus rhodochrous J1.
  A; Reference number: S14771; MUID: 91192028; PMID: 2013281
                                                                                                  A; Reference number: S02070; MUID: 89153549; PMID: 2920826
                                                                                                  A; Accession: S02071
  A; Accession: S14772
  A; Molecule type: protein
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  A; Residues: 1-6, 'I', 8-28 < EUR>
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  A; Cross-references: UNIPARC: UPI0000172FFA
                                                                                                  A; Cross-references: UNIPARC: UPI0000172FF1
  A; Experimental source: strain J1
                                                                                                  R; Hashimoto, Y.; Nishiyama, M.; Ikehata, O.; Horinouchi, S.; Beppu, T.
                                                                                                  Biochim. Biophys. Acta 1088, 225-233, 1991
  C: Function:
                                                                                                  A; Title: Cloning and characterization of an amidase gene from Rhodococcus
  A; Description: catalyzes the hydration of nitrile compounds to the corresponding
  aliphatic amides
                                                                                                  species N-774 and its expression in Escherichia coli.
  A; Pathway: cyanoamino acid metabolism
                                                                                                  A; Reference number: S15070; MUID: 91159474; PMID: 2001397
  C; Superfamily: nitrile hydratase, beta subunit
                                                                                                  A; Accession: S15072
  C; Keywords: carbon-oxygen lyase; cobalt; hydro-lyase
                                                                                                  A; Molecule type: DNA
                                                                                                  A; Residues: 1-12;179-212 < HAS>
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                                                                                                  A;Cross-references: UNIPARC:UPI0000172FF2; UNIPARC:UPI0000172FF3; EMBL:X54074
    Query Match
                         27.2%; Score 349.5; DB 1; Length 229;
                                                                                                  A; Experimental source: strain N-774
    Best Local Similarity 34.2%; Pred. No. 4.1e-24;
                                                                                                  R; Bigey, F.; Chebrou, H.; Arnaud, A.; Galzy, P.
    Matches 79; Conservative 34; Mismatches 105; Indels 13; Gaps 3;
                                                                                                  submitted to the EMBL Data Library, March 1995
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